

Title (en)

AXIAL THRUST COMPENSATION DEVICE FOR FLUID PUMPS

Publication

EP 0224764 B1 19890503 (DE)

Application

EP 86115684 A 19861112

Priority

CH 506685 A 19851127

Abstract (en)

1. An axial-thrust equalizer (5, 6) for a liquid pump, the equalizer mainly comprising a stationary sleeve (5) and, rotating therein, a dummy piston (6) rigidly secured to the pump rotor shaft, characterized in that the sleeve (5) is formed with ducts (51, 52) for guiding out of the rotor side chamber (31) contiguous with the equalizer a flow (Q) of working liquid moving towards the dummy piston (6), the flow (Q) dividing, at the place (53) where the ducts (51, 52) join the gap (56) between the sleeve (5) and the dummy piston (6), into two flows (Q1 , Q2) moving towards the two gap ends.

IPC 1-7

F01D 3/04; **F01D 25/04**; **F04D 29/04**

IPC 8 full level

F01D 3/04 (2006.01); **F01D 25/04** (2006.01)

CPC (source: EP US)

F01D 3/04 (2013.01 - EP US); **F01D 25/04** (2013.01 - EP US); **F04D 29/0416** (2013.01 - EP US)

Cited by

EP3896288A1; EP1596069A3; EP2154332A1; FR2687429A1; DE4313455A1; EP0622525A1; CN113227583A; WO2010018021A1; US11549512B2; WO2020065674A1

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